

REMARKS

Claims 2-3 and 9-10 have been canceled. Claims 1, 4-8, and 11-14 remain pending in the application. Applicants amend claims 1 and 8 for further clarification, and refer to Fig. 5 and its corresponding description in the specification for an exemplary embodiment of and support for the claimed invention. Applicants amend claims 11-14 for minor corrections. No new matter has been added.

Claims 8 and 11-14 stand rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter of the invention.

In particular, the Examiner objected to a number of claimed features for lack of antecedent basis. Applicants amend claims 8 and 11-14 to consistently recite the respective features, and to thereby provide antecedent basis for the claimed features. Accordingly, Applicants respectfully request that the Examiner withdraw the § 112, ¶ 2 rejection.

Claims 1, 4-6, 8, and 11-13 stand rejected under 35 U.S.C. § 102(c) as being anticipated by U.S. Patent No. 6,131,016 to Greenstein et al.; and claims 7 and 14 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Greenstein et al. Applicants amend claims 1 and 8 in a good faith effort to further clarify the invention as distinguished from the cited reference, and respectfully traverse the rejections.

The Examiner maintained that the description of selection switching in Greenstein et al. discloses the claimed control weight features. The cited portions of Greenstein et al. only include, however, description of receiving feedback from receivers selecting and “de-selecting” transmission processing circuits. Such portions only include description of “zeroing” corresponding weighting circuits or switching between them as alternatives for the “de-selecting” based on pilot tone comparison at the receivers. Thus, Greenstein et al., as cited and relied upon by the Examiner, only describe selecting a particular transmission

processing circuit and “de-selecting” or switching off another transmission processing circuit, and fail to disclose the claimed features of calculating only a control weight applied to a selected antenna and fixing the control weight of an unselected antenna to a current value.

In other words, Greenstein et al., as cited and relied upon by the Examiner, fail to disclose,

“[a] transmitting diversity system with a base station transmitting signals from a plurality of antennas and performing diversity transmission according to feedback data transmitted from a mobile node receiving the signals, comprising:
a signal condition detection unit detecting the condition of a signal transmitted from each of the plurality of antennas;
an antenna selection unit selecting an antenna for which a control weight is calculated, from the plurality of antennas;
a control weight unit calculating only a control weight applied to the selected antenna and applying the control weight to signals transmitted from the selected antenna; and
a switch unit routing input signals to each of the plurality of antennas and disconnecting the antenna, wherein said control weight unit fixes the control weight of an unselected antenna to a current value,” as recited in claim 1.
(Emphasis added)

Again, the claimed invention advantageously provides for feeding back only the transmission weight for a selected part of antennas, and thus, reducing the amount of feedback information for comprehensive control. The cited portions of Greenstein et al. only include description of selection, and do not include any disclosure of such feedback reduction features.

Accordingly, Applicants respectfully submit that claim 1, together with claims 4-7 dependent therefrom, is patentable over Greenstein et al. for at least the above-stated reasons. Claim 8 incorporates features that correspond to those of claim 1 cited above, and is, therefore, together with claims 11-14 dependent therefrom, patentable over Greenstein et al. for at least the same reasons.

In view of the remarks set forth above, this application is in condition for allowance which action is respectfully requested. However, if for any reason the Examiner should consider this application not to be in condition for allowance, the Examiner is respectfully requested to telephone the undersigned attorney at the number listed below prior to issuing a further Action.

Any fee due with this paper may be charged to Deposit Account No. 50-1290.

Respectfully submitted,

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